LISTING OF THE CLAIMS

No claims have been changed by this Amendment. A complete listing of the current pending claims is provided below and supersedes all previous claims listing(s). No new matter has been added.

1. (Previously Presented) A method of storing data into a database, comprising:

identifying the data to load into the database, wherein the data is associated with a schema information;

identifying the schema information for the data;

determining whether the schema information and a schema-specific load structure that are used to load the data into the database already exist;

acquiring the schema information from the data based on a first criteria, wherein the first criteria is associated with determining whether the schema information already exists;

generating an in memory representation of the schema information to load the data into the database based on the first criteria;

generating the schema-specific load structure to load the data into the database based on a second criteria, wherein the second criteria is associated with determining whether the schema-specific load structure already exists; and

storing the generated schema information and schema-specific load structures for subsequent loads of the data.

- 2. (Canceled)
- 3. (Previously Presented) The method of claim 1 in which the schema-specific load structures comprise at least one of array column, data stream, dispatch table entry or allocated address space in memory.
- 4. (Previously Presented) The method of claim 1 in which the schema information comprises at least one of column type, column number or column identifier.
- 5. (Previously Presented) The method of claim 1 in which the schema information is protocol neutral.

Patent

Atty. Docket No.: OI7035742001

- 6. (Previously Presented) The method of claim 1 in which the schema information can be used by multiple different protocol-based load procedures.
- 7. (Previously Presented) The method of claim 6 in which the multiple different protocol-based load procedures_load data having different protocols, wherein the protocols comprise the File Transfer Protocol or the Hypertext Transfer Protocol.
- 8. (Previously Presented) The method of claim 1 in which the schema information is cached in memory.
- 9. (Previously Presented) The method of claim 1 in which the data is loaded using multiple streams of load operations.
- 10. (Previously Presented) The method of claim 9 in which the multiple streams are loaded in parallel.
- 11. (Previously Presented) The method of claim 1 further comprising: receiving the data at a client application; and storing the data according to a direct path approach.
- 12. (Previously Presented) The method of Claim 11, the direct path approach further comprising:

creating a data structure; and generating a data stream based on said data structure.

- 13. (Previously Presented) The method of Claim 12, wherein said data structure is created in memory that is associated with said client application.
- 14. (Previously Presented) The method of Claim 12, wherein the data structure comprises a database table and an array.
- 15. (Previously Presented) The method of Claim 14, wherein the array comprises user visible columns and hidden columns.
- 16. (Previously Presented) The method of Claim 11, wherein the data comprises semistructured data.

- 17. (Previously Presented) The method of Claim 11, wherein the client application specifies actions to be performed when an error occurs.
- 18. (Previously Presented) The method of Claim 11, wherein data are stored in the database without causing a Structured Query Language (SQL) engine to load the data.
- 19. (Previously Presented) The method of Claim 1, further comprising storing data into the database using conventional path loading.
- 20. (Previously Presented) The method of Claim 19, further comprising: parsing data that comprises one or more instances of a type.
- 21. (Previously Presented) The method of Claim 20, wherein the client application generates Structured Query Language (SQL) commands.
- 22. (Previously Presented) The method of claim 1 further comprising:
 releasing resources associated with the schema information or load structure based on timed out information.
- 23. (Previously Presented) The method of Claim 22, further comprising:
 releasing resources associated with the schema information or load structure based upon a least recently used (LRU) approach.
- 24. (Previously Presented) A system for storing data into a database, comprising:

 means for identifying the data to load into the database, wherein the data is associated with a schema information;

means for identifying the schema information for the data;

means for determining whether the schema information and a schema-specific load structure that are used to load the data into the database already exist;

means for acquiring the schema information from the data based on a first criteria, wherein the first criteria is associated with the means for determining whether the schema information already exists;

means for generating an in memory representation of the schema information to load the data into the database based on the first criteria;

means for generating the schema-specific load structures to load the data into the database based on a second criteria, wherein the second criteria is associated with the means for determining whether the schema-specific load structure already exists; and

means for storing the generated schema information and schema-specific load structures for subsequent loads of the data.

25. (Previously Presented) A computer program product comprising a computer usable medium having executable code to execute a process for storing data into a database, the process comprising:

instructions for identifying the data to load into the database, wherein the data is associated with a schema information;

instructions for identifying the schema information for the data;

instructions for determining whether the schema information and a schema-specific load structure that are used to load the data into the database already exist;

instructions for acquiring the schema information from the data based on a first criteria, wherein the first criteria is associated with determining whether the schema information already exists; and

instructions for generating an in memory representation of the schema information to load the data into the database based on the first criteria;

instructions for generating the schema-specific load structures to load the data into the database based on a second criteria, wherein the second criteria is associated with determining whether the schema-specific load structure already exists; and

instructions for storing the generated schema information and schema-specific load structures for subsequent loads of the data.